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OFFICE OF INSPECTION AND ENFORCEMENT

Region V

Report No. 50-326/81-02 (IE-V-430)	
Docket No. 50-326 License No. R-116	Safeguards Group 5
Licensee: University of California, Irvine	
Department of Chemistry	
Irvine, California	
Facility Name: Nuclear Reactor Laboratory	
Inspection at:Irvine, California	
Inspection Conducted: February 26, 1981	
Date of Last Material Control and Accounting Inspection Visi	t: February 7-8, 1979
Type of Inspection: Unannounced, Material Control and Acc	ounting
Inspectors: A.L. Brock, Chemist	 Daté Signed
B. L. Brock, Chemist	3/10/81
W. Mortensen Physical Security Inspector	Date Signed
Approved by: Nettan Mardenham	3/10/81
L. R. Nordernaug, Chief, Safequards Branch	Date Sighed

Inspection Summary:

Areas Inspected: Routine unannounced safeguards inspection for compliance with applicable regulations pertaining to control and accounting for special nuclear material in research reactor programs. Functional areas inspected were facility organization and operations, measurements, shipping and receiving, storage and internal controls, physical inventory and records and reports. The inspection involved 6 inspector hours onsite by two NRC inspectors.

No items of noncompliance were identified in the six areas inspected.

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DETAILS

1. Persons Contacted

*Dr. F. S. Rowland, Reactor Administrator *Dr. G. Miller, Reactor Supervisor P. Jerabek, Senior Reactor Operator

*Denotes those attending the exit interview.

2. Licensee Action on Previous Inspection Findings

None.

3. Exit Interview

The results of the inspection were discussed with licensee personnel identified in paragraph 1.

4. Unresolved Items

No unresolved items were identified during the prior material control and accounting inspection.

5. MC 585102B Material Control and Accounting

No items of noncompliance were identified.

a. Facility Organization and Operations.

The licensee's organization structure remained unchanged. His operations were at the level encountered in previous inspections. His inventory was within authorized possession limits and was used for authorized purposes.

b. Measurements.

The licensee's depletion and production history were accurately reported. Current operations of this 250 KW Triga reactor result in about

per material balance period.

c. Shipping and Receiving

There were no shipments or receipts since the last inspection.

d. Storage and Internal Controls

Documentation appropriately reflected the presence of the reported inventory. All SNM was located in the presence of the reported

e. Physical Inventory

The licensee takes the required annual physical inventories. A physical inventory was taken during this inspection by verifying the sorial number on the one new fuel element in dry storage and piece counting the irradiated fuel elements in the provide the core was accepted based on the core

loading record).

f. Records and Reports

The records and reports were approriately made and adequately reflected the licensee's SNM invencory. The licensee appropriately explained in an April 16, 1979 letter to the Oak Ridge Operations Office of the Department of Energy small discrepancies in his U, U-235 and Pu inventory. The copy of the letter intended for Region V was not received, however, one was provided when the question of the discrepancy was raised. The letter adequately answered all questions.



UNITED STATES NUCLEAR REGULATORY COMMISSION REGION V

> 1450 MARIA LANE, SUITE 260 WALNUT CREEK, CALIFORNIA 94596

> > July 7, 1982

Docket No. 50-326

University of California, Irvine Irvine, California 92717

Attention: Professor J. L. McGaugh Executive Vice Chancellor

Gentlemen:

This letter refers to the special safeguards inspection of your activities authorized under NRC License No. R-116 conducted by Messers. W. P. Mortensen and C. A. Schwan of this office on May 10 and 28, June 9, 15, and 30, and July 1, 1982.

The inspection included an in-office examination of your security reporting procedures in accordance with applicable requirements of Title 10, Code of Federal Regulations, Part 73, "Physical Protection of Plants and Materials." Within these areas, the inspection consisted of an examination of your June 1, 1982 letter to this office reporting a Physical Security Event (major loss of security effectiveness) and telephone interviews with facility personnel.

Based on the results of this inspection, it appears that certain of your activities were not conducted in full compliance with NRC requirements, as set forth in the Notice of Violation, enclosed herewith as Appendix A. Pursuant to the provisions of 10 CFR 2.207 you are required to respond as indicated therein.

In accordance with Section 2.790(d) of the NRC's "Rules of Practice", Part 2, Title 10, Code of Federal Regulations, documentation of findings of your security procedures are exempt from disclosure; therefore, the enclosure to this letter and your response to the items listed in the enclosure to this letter will not be placed in the Public Document Room and will receive limited distribution.

The responses directed by this letter and the accompanying Notice are not subject to the clearance procedures of the Office of Management and Budget as required by the Paperwork Reduction Act of 1980, PL 96-511.

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University of California, Irvine -2- July 7, 1982

Should you have any questions concerning this letter, we will be glad to discuss them with you.

Sincerely,

m.O. X LeRoy R. Norderhaug, Chief Safeguards Branch

Attachments:

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- 1. Appendix A Notice of Violation
- Inspection Report No. 50-326/82-02 (IE-V-509)

